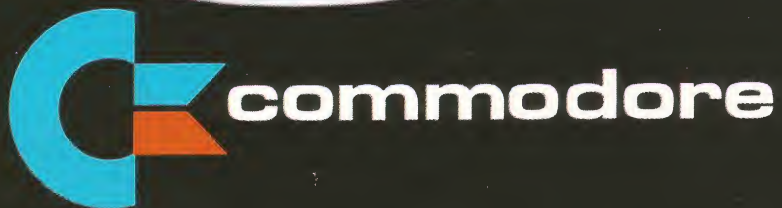


# The **PET**<sup>TM</sup> Personal Computer





# PET™ Plus .....



2001-16/32

## The PET™ is now a truly sophisticated Business System with the announcement of these Peripherals.

The PET™, incorporated with the Floppy Disk and Printer makes an ideal business system for most professional and specialized fields: medicine, law, dental, research, engineering, toolmaking, printing, education, energy conservation, etc. . . The PET™ Business System as a management tool, delivers information to all levels of Business, previously attainable only with equipment many times more expensive. The PET™ Business System is one of the most cost efficient business tools

today. It offers a wide range of applications from logging management strategy in major corporations to organizing accounts and inventory control of small businesses. Here are just a few of the cost-saving uses in the corporation, professional office or small business: stock control, purchasing, forecasting, manufacturing costing, customer records, mailing lists, etc. . . The PET™, Floppy Disk and Printer, a compatible business system at a reasonable price — Take a closer look at these Peripherals . . .

### Specifications:

Dimensions: 16½" wide by 18½" deep, 14" overall height  
Weight: 44 lbs.

#### MEMORY

Random Access Memory 16 or 32K bytes  
Read Only Memory (operating system resident in the computer): 14K bytes  
8K+ — BASIC interpreter  
4K — Operating system  
1K — Machine language monitor

#### VIDEO DISPLAY UNIT

9" monochrome CRT  
1000 character display, 40 x 25  
8 x 8 dot matrix for characters  
64 standard ASCII characters; 64 graphic characters

KEYBOARD: Business or Number Pad Version  
Screen Control: home, clear, up, down, left and right  
Editing: Character insertion and deletion

OPERATING SYSTEM will support multiple languages (BASIC resident)

Machine language accessibility.  
File management in operating system.  
Random number generation or pseudo random sequence.

#### INPUT/OUTPUT

I/O supported through IEEE-488 instrument interface for multiple intelligent peripherals. Memory mapped I/O user port.  
All I/O automatically managed by operating system software.

Single character I/O with GET command.

#### BASIC INTERPRETER

Expanded 8K BASIC.  
Strings, integers and multiple dimension arrays.  
High precision (9 significant digits).  
Direct memory access through PEEK and POKE commands.

Additional sockets are provided on board for 8K ROM expansion.

ROMs for assembler or disk O.S. may be inserted.

# Profession Peripherals



**2040**

## Dual Drive Floppy Disk

The Dual Drive Floppy is the latest in Disk technology with extremely large storage capability and excellent file management. As the Commodore disk is an "Intelligent" peripheral, it uses none of the RAM (user) memory of the PET™. The Floppy Disk operating system used with the PET™ computer enables a program to read or write data in the background while simultaneously transferring data over the IEEE to the PET™. The Floppy Disk is a reliable low cost unit, and is convenient for high speed data transfer. Due to the latest technological advances incorporated in this disk, a total of 360K bytes are available in the two standard 5¼" disks, without the problems of double tracking or double density. This is achieved by the use of two microprocessors and fifteen memory I.C.s built into the disk unit. Only two connections are necessary — an A/C cord and PET™ interface cord.

### Specifications:

#### Microcomputer system devices

##### Controller

- 6504 microprocessor
- 6530 I/O, RAM, and 1K ROM software
- 6316 2K ROM for encoding & decoding disk data
- 6522 I/O and interval timers

##### File interface

- 6502 microprocessor
- (2) 6532 RAM, I/O, interval timers
- (2) 6332 4K ROM each (total 8K disk operating system)

##### Shared RAM

- (8) 6114 1K x 4 bit static RAM (total 4K bytes)

#### Disk drives

- (2) Shugart Associates SA390 drives
- standard minifloppy (5¼" disk)
- activity LED's light when a file is open on that drive

#### Power requirements

- 50 watts @ 120 VAC
- line frequency independent
- other line voltage options to be announced

(Cont'd over)



**2022**

## Tractor Feed Printer

The Tractor Feed Printer is a high specification printer that can print onto paper (multiple copies) all the PET™ characters — letters (upper and lower case), numbers and graphics available in the PET™. The tractor feed capability has the advantage of accepting mailing labels, using standard preprinted forms (customized), cheque printing for salaries, payables, etc. Again, the only connections required are an A/C cord and PET™ connecting cord. The PET™ is programmable, allowing the printer to format print for: width, decimal position, leading and trailing zero's, left margin justified, lines per page, etc. It accepts 8½" paper giving up to four copies. Bidirectional printing enables increased speed of printing.

### Specifications:

#### Microcomputer System Devices

- 6504 Microprocessor
- 6522 I/O, interval timer (2)
- 6114 1K x 4 RAM (2)
- 6332 4K x 8 ROM

#### Printer Mechanism

- Manufactured by C. Itoh Electronics, Inc. Model No. 820
- Tractor feed
- Epson DH-70 print head
- Dot matrix — 7 x 6 — 80 columns per line
- Impact print — original plus 3 copies
- Print rate is 84 LPM (112 CPS)
- Bi-directional printing
- Forms: 8.5+ plus .5+ x 2 (sprocket margins)
- Pin to pin distance .5+ Longitudinally
- 9.0+ Laterally
- 5/32+ Diameter

#### Packaging

- 18 gauge all steel cabinet
- Dimensions: width — 17+, depth — 18+, height — 6+
- Forms enter from rear or bottom of cabinet.

#### Power

- 150 watts 120 or 220 or 240V AC
- 50 or 60 Hz

(Cont'd over)



### Packaging

18 gauge all steel cabinet  
Dimensions: width — 15", depth — 14.35", height — 6.5"  
Cover hinges from base for servicing

### Diskette organization

Formatting is by the drive itself — any mini-floppy diskette may be used  
35 concentric tracks  
constant density recording on each track  
varying number of sectors per track —  
innermost: 17 outermost: 21  
176640 bytes on a single side  
Track 18 used for directory  
171520 bytes for user storage  
Soft-sectoring  
Diskettes for dual side recording may be used

### Data interface

IEEE-488  
Standard 24-pin stacking connector  
Device #8-15 by jumper option  
full listener — talker  
recognizes secondary addressing

### Floppy Disk Command set (summary)

#### Notes

D := Drive #, 0 or 1  
E := IEEE device # of floppy  
L := Logical file #  
C := Channel # (2 ≤ C ≤ 15)  
CL := Logical file # for command channel  
\* := Pattern symbol matches any number of characters  
? := Pattern symbol matches exactly one character  
"?" may appear anywhere, "\*" may only appear on right side of pattern.

Example: "N?M\*" matches  
"NEW", "NUM", "NAME", "NUMBER"

Files must begin W/ cap letter from A to Z & may have 16 characters.

Pattern matching W/ file names may be used only when:  
Loading directory (\$)   
Scratching files  
Opening read channels  
Loading programs

Default drive #'s may be used in most cases.  
Using a ":" without a drive # indicates a default to the previously determined drive #. A file name with no drive # or ":" indicates that the file is to be looked up on both drives, beginning with the previously determined drive #. A ":" must separate commands from file names as described above.  
Commands may be abbreviated to any form that retains the 1st char.

### Data Interface

IEEE-488  
Standard 24-pin stacking connector  
Device #4-7 by jumper option  
Listener only  
Recognizes secondary addressing

### Character Set

Upper case ASCII  
Lower case ASCII  
PET™ graphics

### Control Characters

- Enhance printing (doubles size)
- Enable automatic line count and paging
- Page eject
- Print reverse field
- Overprint a line
- Switch to graphics character set
- Switch to lower case character set
- Print programmable character

### IEEE Secondary Address Commands

- Print data exactly as received
- Accept characters as a format
- Edit data to format
- Alter number of lines per page
- Enable diagnostic messages to print
- Accept data for programmable character

### Data Formatting Capability

- Field width and decimal position specified
- Leading or trailing sign
- Fixed or floating dollar sign
- Forced leading zeroes
- Literal characters always printed
- Alpha fields left justified

### Diagnostic Messages

- Can be turned on when desired
- Print on paper
- Describe problems with format and data



#### Associated Companies

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